

WHAT IS CLAIMED IS:

1. system for attaching an accessory to a sheet, wherein the sheet has an attachment opening with a perimeter defining the opening, the system comprising:

a clip, comprising:

5 a base for being passed through the opening and for being disposed above one side of the sheet, the base having a perimeter;

first and second elastically deformable arms attached to the base and extending back from the base toward the sheet and the opening, the first and second arms alternating in location around the base, and each arm extending radially from the perimeter of the base and being bent from the base back toward the surface and the opening therethrough, wherein the first and second arms are each arrayed in symmetrical positions around the base;

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a connector between an accessory to be attached to the sheet and the base for attaching the accessory to the base;

the first arms having first end formations which lean against a first surface of the sheet that is toward the base of the clip;

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the first end formations comprising a plurality of transverse folds across the respective first arm and shaped to define an outer transverse channel shaped for gripping the perimeter of the opening in the sheet, the first formation being shaped to include an upper side which leans against the first surface of the sheet, a base of the channel which leans against the perimeter of the opening in the sheet and a lower side of the channel to pass the opposite second side of the sheet and is inclined downwardly; and

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the second arms having second end formations which lean against an opposite second surface of the sheet away from the base.

2. The system of claim 1, wherein the connector between the accessory and base of the clip comprises a screw extending from the accessory and an opening in

the base shaped for threadedly receiving the screw.

3. The system of claim 1, wherein there at least six of the elastically deformable arms.

4. The system of claim 3, wherein the first and second arms are so placed around the base that each first arm is opposite and faces a respective second arm.

5. The system of claim 1, wherein the first and second arms are so placed around the base that each first arm is opposite and faces a respective second arm.

6. The system of claim 1, further comprising a respective incut in the perimeter of the base between neighboring ones of the arms.

7. The system of claim 6, wherein each of the incuts respectively includes opposite end sections with respective first curves and an intermediate section of different radius and a tangent to the end section, all placed in the same plane.

8. The system of claim 1, wherein the first arms have a narrowed region adjacent the end formation thereof.

9. The system of claim 8, wherein the narrowed regions of the first arms comprising the arms having side edges with opposing incuts defined therein.

5           10. The system of claim 8, wherein the first arms include longitudinal end strips on the side edge thereof and curved inward of a clip toward an axis thereof, located between the incuts of the first arms and the incuts at the base;  
further comprising a respective incut in the perimeter of the base between

neighboring ones of the arms.

11. The system of claim 1, wherein the end formation of the second arm comprises a first transverse elbow oriented outwardly with respect to the clip and having an orientation approximately at a right angle to the second arm for defining an outer segment of the second arm, the outer segment having a free transverse edge and having a second transverse elbow near the transverse edge thereof, the second elbow being oriented toward the plane of the clip base and at an angle greater than 90° for defining an inclined segment of the second free transverse elbow, the inclined segment being shaped and positioned to be disposed against the second surface of the sheet away from the base of the clip.

12. The system of claim 11, wherein the end formation of the second arm is so shaped and the accessory attached to the clip has a surface disposed for being engaged by the outer segment of the end formation of the second arm.

13. The system of claim 12, further comprising projections at the accessory directed toward the clip and shaped for receiving the outer segment of the second arm between two of the projections .

14. The system of claim 13, wherein the sheet and the accessory are attached to a body having an opening therethrough, with the accessory disposed at one side of the opening in the body and the sheet being at the opposite side of the opening of the body; and  
the area around the opening of the body being positioned between the accessory and the outer segment of the second arm which rests on the accessory at the opening in the body.

15. The system of claim 1, further comprising an area on the accessory which rests on the sheet and cooperates with the clips to assist the clips to withstand stresses applied to the accessory with respect to the sheet.

16. The system of claim 2, wherein the clip has an opening in the base which is approximately truncated conical in shape and the outline of the opening in the base of the clip describes a spiral having a shape determined by the thread of the screw.

17. The system of claim 1, wherein the accessory and the system are attachable to a body having an opening therethrough wherein the accessory is at one side of the body at the opening while the clip, and the sheet are at the opposite sides of the body at the opening through the body; and

5           the connector joins the accessory to the body, and the connector extends through the opening of the body to the base of the clip whereby the clip, is attached to the body.

18. The system of claim 17, wherein the body with the opening therethrough is the body of a vehicle and the accessory attached is an accessory that is attached to the body of the vehicle.